

ABSTRACT

Novel strains of *Bifidobacterium hifidum* capable of producing a novel galactosidase enzyme activity that converts lactose to a novel mixture of galactooligosaccharides. The mixture of

5 oligosaccharids may be incorporated into numerous food products or animal feeds for improving gut health by promoting the growth of bifidobacteria in the gut, and repressing the growth of the pathogenic microflora.